abcam

Product datasheet

Anti-ATP5A antibody [EPR13030(B)] ab176569

リコンビナント RabMAb

4 Abreviews 23 References 画像数 12

製品の概要

製品名	Anti-ATP5A antibody [EPR13030(B)]
製品の詳細	Rabbit monoclonal [EPR13030(B)] to ATP5A
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), ICC/IF, IHC-P, WB
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide within Human ATP5A aa 200-300 (Cysteine residue). The exact sequence is proprietary. Isoform 1 Database link: **P25705**
ポジティブ・コントロール	HepG2, HeLa, fetal liver and fetal lung lysates; Human liver and fetal heart tissues; HeLa and MCF7 cells.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR13030(B)

アイソタイプ IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab176569の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	1/100 - 1/250.
IHC-P		1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/50 - 1/100.** The use of an HRP/AP polymerized secondary antibody is recommended.
WB	★★★★★ (3)	1/1000 - 1/10000. Predicted molecular weight: 60 kDa.

ターゲット情報

機能 Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits. Subunit alpha does not bear the catalytic high-affinity ATP-binding sites.

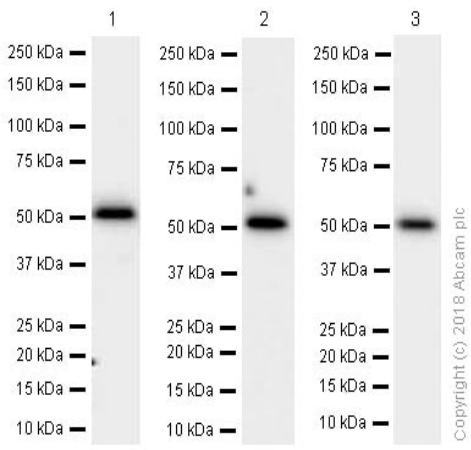
組織特異性 Fetal lung, heart, liver, gut and kidney. Expressed at higher levels in the fetal brain, retina and spinal cord.

配列類似性 Belongs to the ATPase alpha/beta chains family.

翻訳後修飾 The N-terminus is blocked.

細胞内局在 Mitochondrion inner membrane. Peripheral membrane protein.

画像



Western blot - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

All lanes : Anti-ATP5A antibody [EPR13030(B)] (ab176569) at 0.01 µg/ml

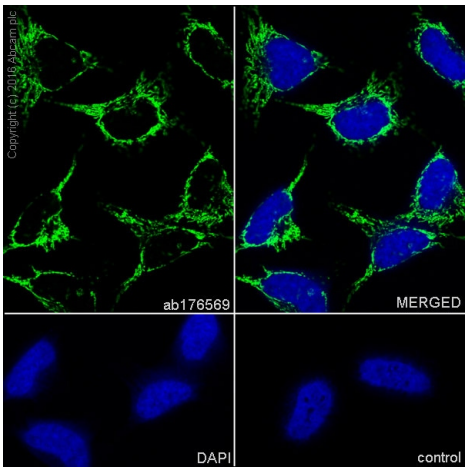
Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : Mouse brain lysates
Lane 3 : Rat brain lysates

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

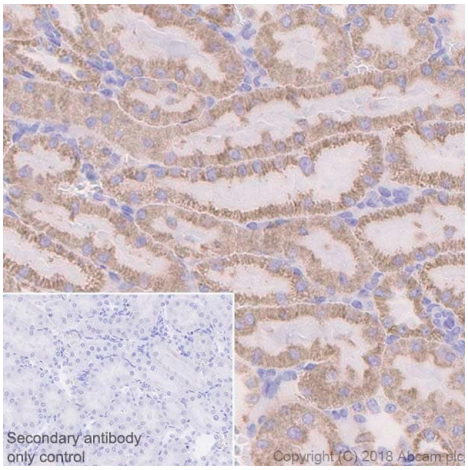
Predicted band size: 60 kDa

Blocking and diluting buffer: 5% NFDM/TBST



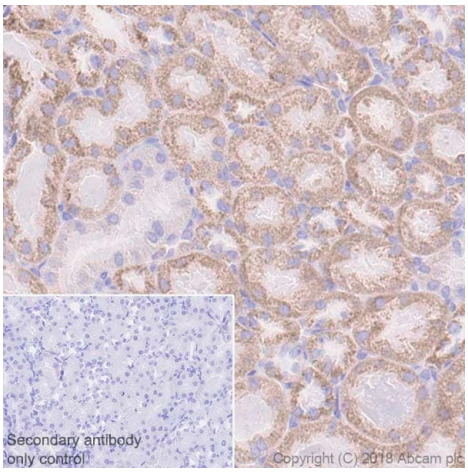
Immunocytochemistry/ Immunofluorescence - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

Ab176569 (purified) staining ATP5A in HeLa (human cervix adenocarcinoma epithelial cell) by Immunocytochemistry/Immunofluorescence (ICC/IF). Cells were fixed with 4% paraformaldehyde and permeabilized n 0.1% TritonX-100. Samples were incubated with primary antibody at 1/500 dilution (4.2µg/ml). An AlexaFluor®488 Goat anti-Rabbit (**ab150077**) was used as a secondary antibody at 1/1000 dilution (2µg/ml). DAPI was used as a nuclear counterstain. Confocal image showing cytoplasmic staining in HeLa cells.



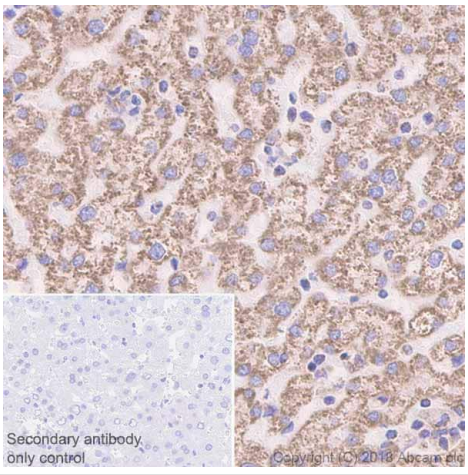
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat kidney tissue sections labeling ATP5A with Purified ab176569 at 1:500 dilution (0.21 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylin was used as a counterstain.



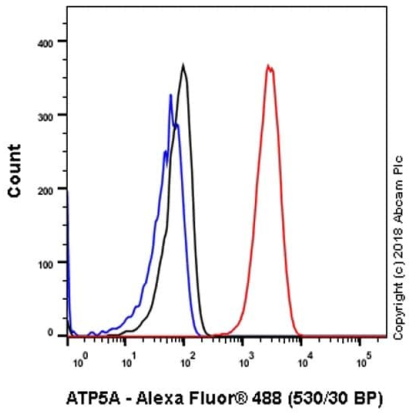
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse kidney tissue sections labeling ATP5A with Purified ab176569 at 1:500 dilution (0.21 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylin was used as a counterstain.



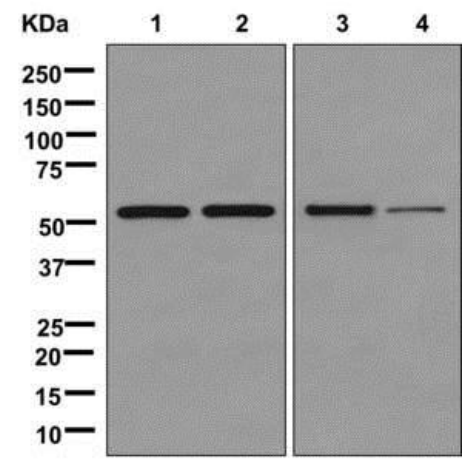
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling ATP5A with Purified ab176569 at 1:500 dilution (0.21 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylin was used as a counterstain.



Flow Cytometry (Intracellular) - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling ATP5A with purified ab176569 at 1/60 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

All lanes : Anti-ATP5A antibody [EPR13030(B)] (ab176569) at 1/1000 dilution (unpurified)

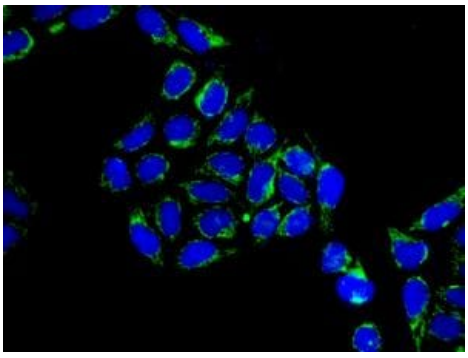
Lane 1 : HepG2 cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : Human fetal liver lysate
Lane 4 : Human fetal lung lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat anti-rabbit HRP at 1/2000 dilution

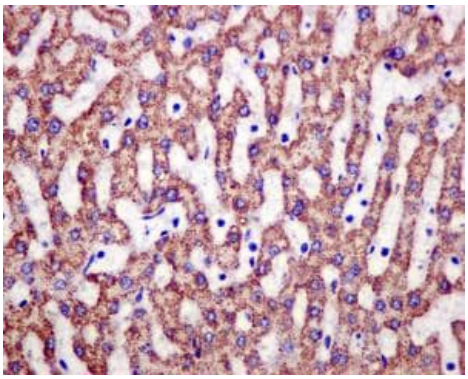
Developed using the ECL technique.

Predicted band size: 60 kDa



Immunocytochemistry/ Immunofluorescence - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

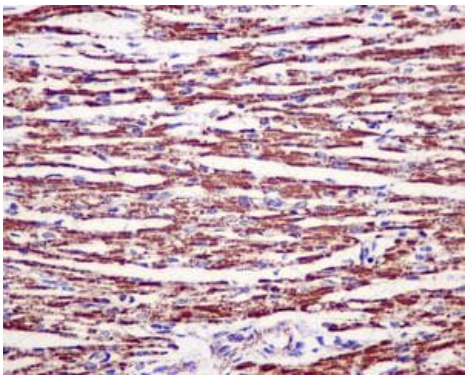
Immunofluorescence analysis of MCF7 cells labeling ATP5A using ab176569 (unpurified) at a 1/100 dilution (green). DAPI nuclear staining (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling ATP5A using ab176569 (unpurified) at a 1/50 dilution.

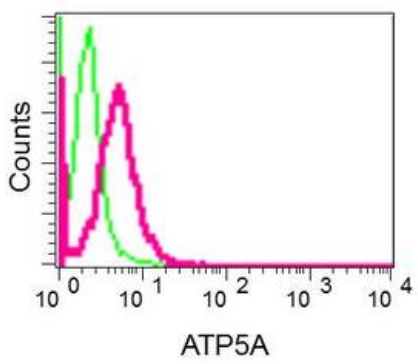
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

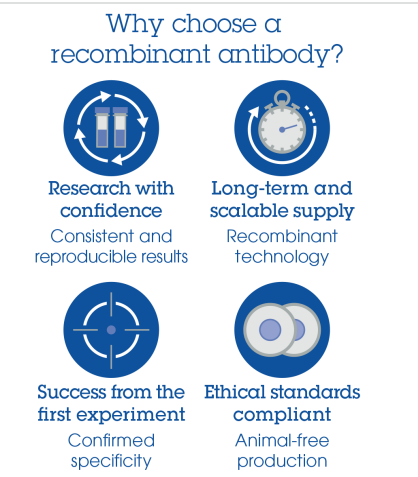
Immunohistochemical analysis of paraffin-embedded Human fetal heart tissue labeling ATP5A using ab176569 (unpurified) at a 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-ATP5A antibody [EPR13030(B)] (ab176569)

Intracellular flow cytometric analysis of permeabilized HeLa cells labeling ATP5A using ab176569 (unpurified) at a 1/10 dilution (red) or a rabbit IgG negative control (green).



Anti-ATP5A antibody [EPR13030(B)] (ab176569)

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